

**Remarks/Arguments**

Claims 1-30 remain in this application. Claims 1-15 and 28-30 have been withdrawn.

The examiner has rejected claims 16-27 under 35 USC 102(b) as being anticipated by *Burghartz, et al.* (5,793,272).

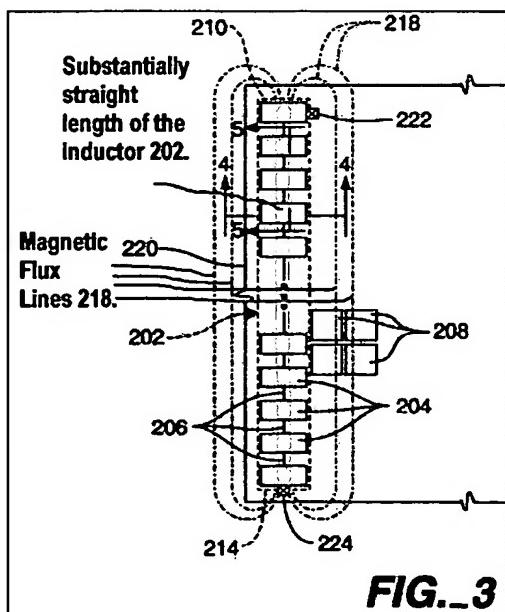
In view of these remarks, reconsideration of the above noted rejections and objections is respectfully requested.

**Rejections under 35 USC 102(b):**

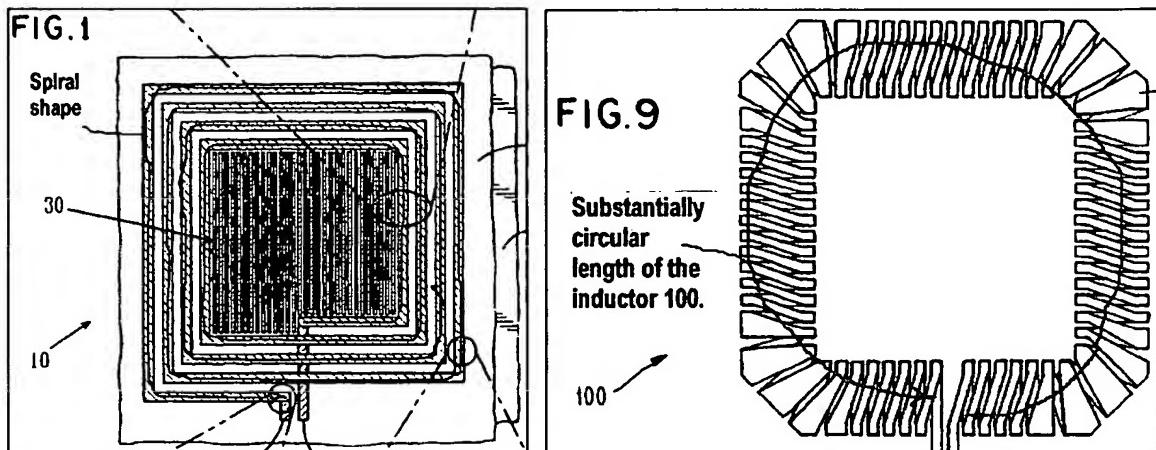
Applicant respectfully traverses the rejection of **claims 16-27** under 35 USC 102(b) as being anticipated by *Burghartz, et al.* The independent claim under this rejection is **claim 16**. Independent **claim 16** has been amended above. Amended independent **claim 16** calls for:

an inductor ... having magnetic flux lines substantially parallel to the plane of the integrated circuit upon operation of the integrated circuit, and having a substantially straight length between first and second opposite ends.

These limitations are supported in Fig. 3, which is reproduced here:



Applicant respectfully submits that *Burghartz, et al.* does not teach or suggest these limitations. Instead, *Burghartz, et al.* discloses a spiral inductor 10 and a toroidal inductor 100, as shown in Figs. 1 and 9, respectively, which are reproduced here:



The spiral inductor 10 is similar to the prior art described with reference to Figs 1 and 2 of the present application, which means that the magnetic flux lines of the spiral inductor 10 are **perpendicular**, rather than **parallel**, to the plane of the IC. (See Fig. 1 and also Specification page 2, lines 6-14.) Additionally, the spiral inductor 10 has a spiral shape, and the toroidal inductor 100 has a circular shape. Applicant respectfully submits, therefore, that independent **claim 16** as amended is not anticipated by, is not obvious in view of, and is patentable over *Burghartz, et al.* at least because the reference does not teach or fairly suggest an inductor having a substantially **straight length** between first and second opposite ends and that has magnetic flux lines substantially **parallel to the plane of the integrated circuit**.

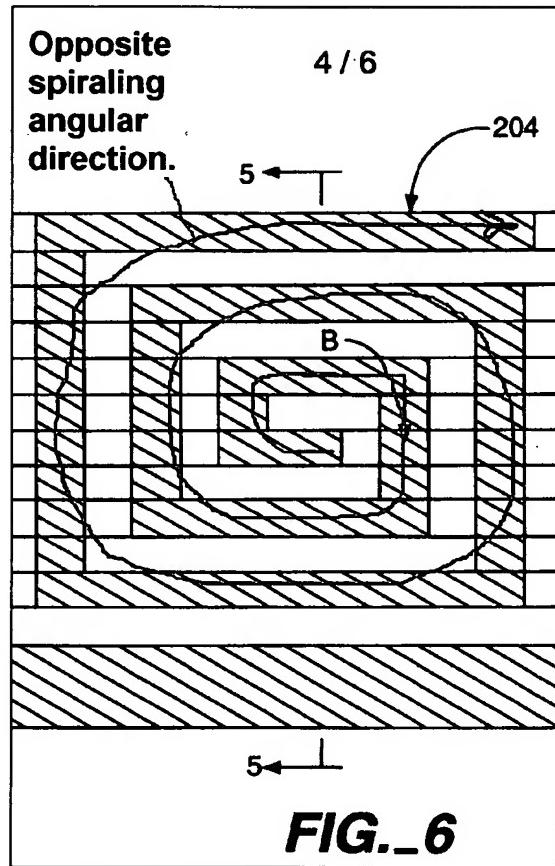
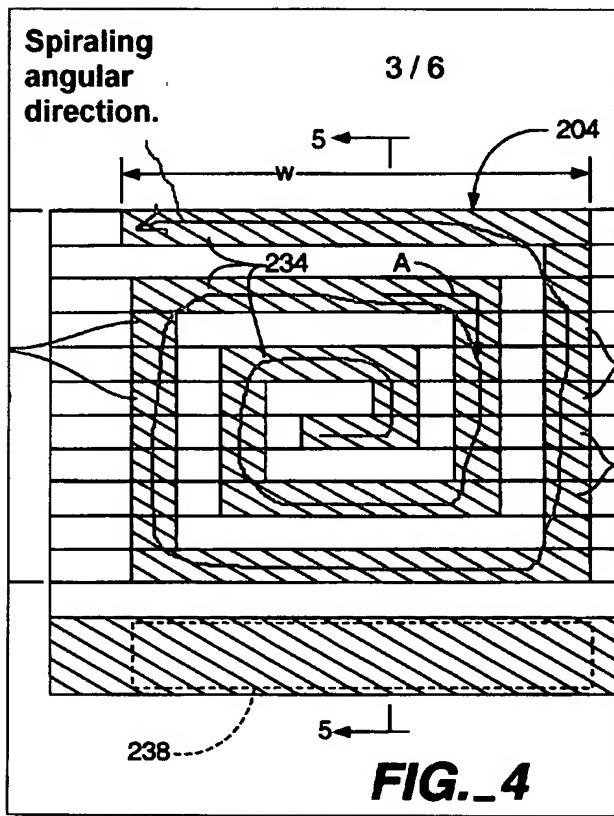
Likewise, since **claims 17-27** depend directly or indirectly from independent **claim 16**, Applicant respectfully submits that these claims are also not anticipated by, are not obvious in view of, and are patentable over *Burghartz, et al.* at least for the same reasons.

In addition to the above, dependent **claim 19** recites:

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the first segment of the inductor has a coil-shape in a first spiraling angular direction; and  
the second segment of the inductor has a coil-shape in a second spiraling angular direction.

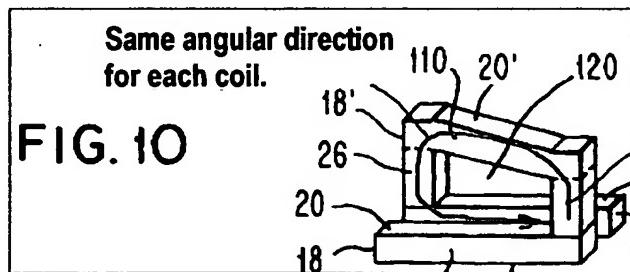
This limitation is supported in Figs. 4 and 6, which are reproduced here:



Applicant respectfully submits that *Burghartz, et al.* does not teach or suggest this limitation. Instead, the spiral inductor 10 of *Burghartz, et al.* does not have first and second segments, but has only **one segment**, as shown in Fig. 1 (reproduced above). Additionally, the spiral inductor 10 has only a **single spiraling angular direction**. Furthermore, although the toroidal inductor 100 of *Burghartz, et al.* has separate segments (i.e. the loops 102), as shown in Fig. 9 (reproduced above), each

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loop 102 has the **same** angular direction, which does **not spiral**, as shown in Fig. 10, reproduced here:



Applicant respectfully submits, therefore, that dependent **claim 19** is not anticipated by, is not obvious in view of, and is patentable over *Burghartz, et al.* at least because the reference does not teach or fairly suggest an inductor having first and second segments with first and second spiraling angular directions.

Additional Amendments:

Dependent claims 24 and 25 have been amended in accordance with the amendment to independent claim 16, from which claims 24 and 25 depend.

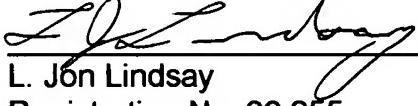
Additionally, Fig. 3 has been amended to correct a minor error that was discovered upon reviewing the application. In particular, reference number 220 in Fig. 3 was discovered to point to the magnetic flux lines, which are already indicated by reference number 218 in Fig. 3 and in the Specification at page 5, lines 21-24. According to the Specification (at page 6, line 1), however, reference number 220 indicates the edge of the IC 200. Fig. 3 has been amended to make this correction. Clean and red-lined copies of Fig. 3 are attached.

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Amtd. Dated October 12, 2005  
Reply to Office action of July 12, 2005

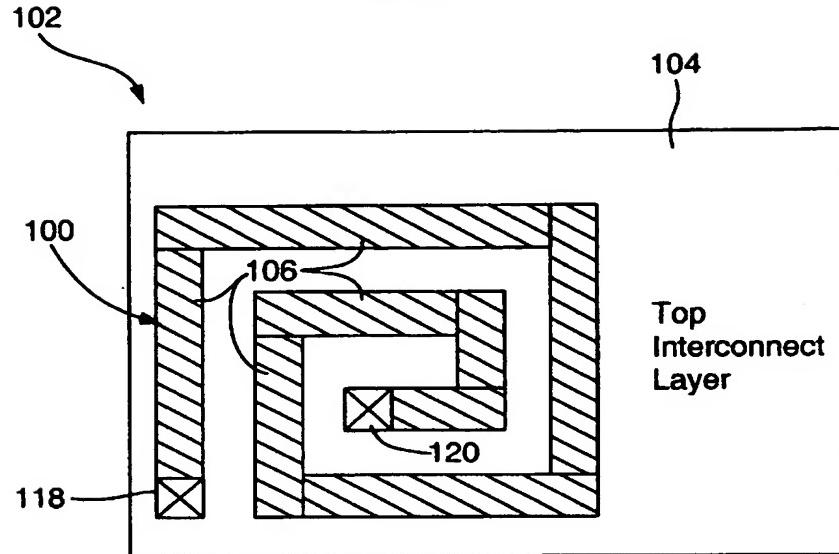
For the reasons specifically discussed above, and others, it is believed that claims 16-27 define patentable subject matter. Reconsideration of the previous rejections as they might apply to these claims is therefore respectfully requested. Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,

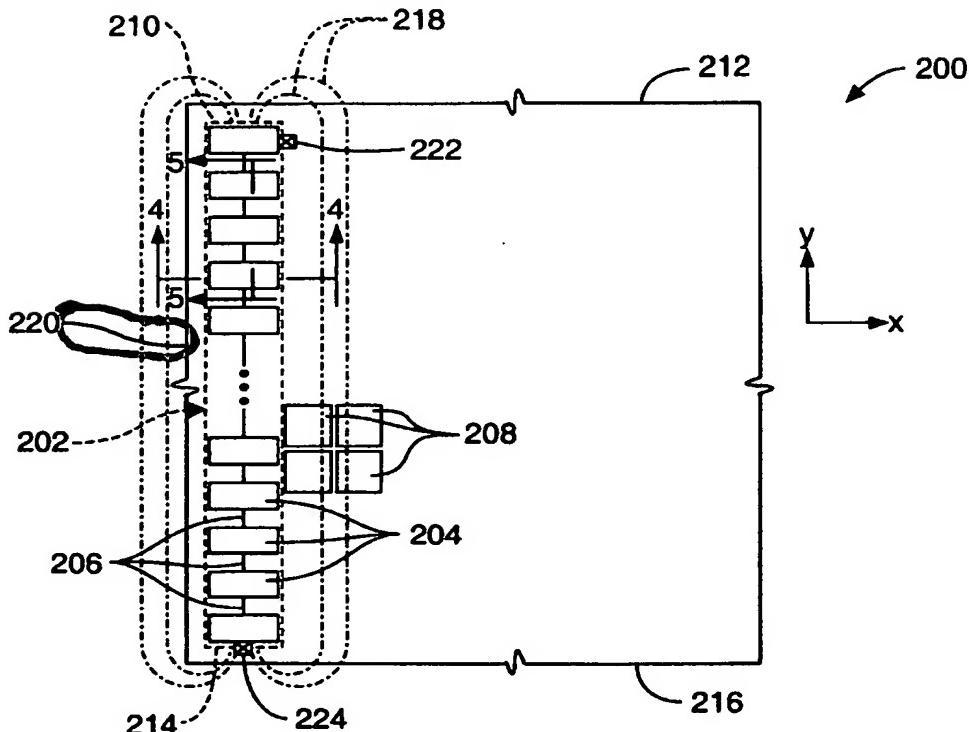
October 12, 2005  
Date

  
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**FIG.\_2**  
(PRIOR ART)



**FIG.\_3**